

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000007

**A. CLASSIFICATION OF SUBJECT MATTER:** (IPC 7) C07D403/12, C07D405/12, C07D309/30, C07D211/74, C07D207/24, C07D213/65, C07D401/12, A61K31/341, A61K31/445, A61K31/44, A61K31/44, A61K31/40, A61K31/55, A61K31/4433, A61K31/506, A61P19/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

(IPC 7) C07D, A61K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms  
Canadian Patent Database, PubMed, Delphion, STN, Espacenet ("capthepsin inhibitors, leucinamide-amino-carboxylate")

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
X, P	WO 04 033445 (MERCK FROSST CANADA Co.) 22 April 2004 (22-04-2004) see entire document	1-12
A	P. SAFTIG ET AL.: "IMPARED OSTEOCLASTIC BONE RESORPTION LEADS TO OSTEOPETROSIS IN CATHEPSIN-K-DIFICIENT MICE" PROG. NATL. ACAD. SCI. USA, vol 95, November 1998, pages 1353-1358 see entire document	1-12
A	S.K. THOMPSON ET AL.: "DESIGN OF POTENT AND SELECTIVE HUMAN CATHEPSIN K INHIBITORS THAT SPAN THE ACTIVE SITE" PROG. NATL. ACAD. SCI. USA	1-12

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

\* Special categories of cited documents :  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
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 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search

03 March 2005 (03-03-2005)

Date of mailing of the international search report

11 May 2005 (11-05-2005)

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Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO2004033445	22-04-2004	WO2004033445 A1	22-04-2004